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ABSTRACT

A continuous process for the hydrothermal conversion of a solid starting iron compound selected from the group of iron oxides, iron hydroxides, iron oxyhydroxides, and mixtures thereof into a solid product iron compound with different physical, chemical, and/or structural properties.

The process comprises the steps of

- a) dispersing the solid starting iron compound in a liquid thus forming a suspension, and
- 10 b) feeding the suspension continuously through one or more agitated conversion vessel(s), in which vessel(s) the solid starting iron compound is converted into the solid product iron compound under hydrothermal conditions.